



28278
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Chen-Jung TSAI

Serial No. 10/074,052 ✓

Filed: February 14, 2002

For: SEMICONDUCTOR PACKAGING DEVICE AND MANUFACTURE THEREOF

Dear Sir:

Transmitted herewith is an Amendment in the above identified application.

- No additional fee is required.
- Small entity status of this application has been established .
- Also attached: Request for Approval of Drawing Revision

The fee has been calculated as shown below:

| | NO. OF CLAIMS | HIGHEST PREVIOUSLY PAID FOR | EXTRA CLAIMS | RATE | FEE |
|--|---------------|-----------------------------|--------------|-----------|---------|
| Total Claims | 13 | 20 | 0 | x \$ 18 = | \$ 0.00 |
| Independent Claims | 5 | 4 | 1 | x \$ 84 = | 84.00 |
| If multiple claims newly presented, add \$280.00 | | | | | |
| Fee for extension of time | | | | | |
| | | | | | |
| TOTAL FEE DUE | | | | | \$84.00 |

- A credit card authorization form in the amount of \$84.00 is attached
- The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment, to Deposit Account No. 07-1337, including any filing fees under 37 CFR 1.16 for presentation of extra claims and any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

LOWE HAUPTMAN GILMAN & BERNER, LLP
Benjamin J. Hauptman

Randy A. Noranbrock
Registration No. 42,940

Date: May 27, 2003

USPTO Customer No. 22429
1700 Diagonal Road, Suite 300
Alexandria, Virginia 22314
(703) 684-1111 BJH:jk



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/074,052
Applicant : TSAI ET AL.
Filed : February 14, 2003
Title : SEMICONDUCTOR PACKAGING DEVICE
MANUFACTURE THEREOF
Art Unit : 2827
Examiner : LOURDES C. CRUZ

Docket No. : 4425-248

Honorable Commissioner for Patents
P. O. Box 1450
Alexandria VA 22313-1450

05/28/2003 SZEWDIE1 00000058 10074052

01 FC:1201

04.00 OP

AMENDMENT

Sir:

In response to the Office Action of February 27, 2003, to which a response is due by May 27, 2003, please amend the above-identified application as follows:

In the Abstract:

Please replace the original abstract with the following rewritten paragraph:

--A semiconductor packaging device has a carrier having at least a cavity for fitting at least a chip. The chip has a back surface, an active surface with first bonding pads, and a sidewall connecting the back surface and the active surface. The back surface and the sidewall of the chip are affixed to the cavity and expose the active surface. A first insulating layer is coated on both the active surface and the carrier, and has first conductive holes therein. The first conductive holes are corresponding to first bonding pads. A multi-layer structure is on the first insulating layer, which has conductive layout lines, second conductive holes therein, a second insulating layer thereon and exposed ball pads in the second insulating layer. The first conductive holes are electrically connected with the conductive layout lines, the second conductive holes, and the exposed ball pads. A plurality of solder balls are affixed to the ball pads.--